## (19) World Intellectual Property Organization International Bureau



## 

(43) International Publication Date 14 July 2005 (14.07.2005) (10) International Publication Number WO 2005/062760 A3

(51) International Patent Classification 7:

C12Q 1/68,

(21) International Application Number:

PCT/US2004/041631

(22) International Filing Date:

13 December 2004 (13.12.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/529.011

12 December 2003 (12.12.2003) US

(71) Applicant (for all designated States except US): UNI¬ VERSITY OF ROCHESTER [US/US]; 601 Elmwood Avenue, Box 706, Rochester, NY 14642 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): CHANG, Chawnshang [US/US]; 19 Sandy Lane, Pittsford, NY 14534 (US).

(74) Agents: SPRATT, Gwendolyn, D. et al.; Needle & Rosenberg, P.C., Suite 1000, 999 Peachtree Street, Atlanta, GA 30309-3915 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 12 January 2006

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: NON-ANDROGEN DEPENDENT ROLES FOR ANDROGEN RECEPTOR AND NON-ANDROGEN RELATED IN-HIBITORS OF ANDROGEN RECEPTOR

(57) Abstract: Disclosed are compositions and methods for modulating AR activity, such as non-androgen dependent AR activity. Also disclosed are compositions and methods for diagnosing beast cancer and for inhibiting breast cancer growth. In addition, disclosed are methods for identifying molecules that inhibit AR in non-androgen dependent ways.